

## **CURRICULUM VITAE**

**Allen C. Ho, MD**

### **Office Address:**

Retinovitreal Associates  
910 East Willow Grove Ave.  
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Wills Eye Hospital  
840 Walnut Street, 10<sup>th</sup> floor  
Philadelphia, PA 19107  
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### **Education:**

BA Cornell University College of Arts and Sciences, with  
highest distinction in all subjects

MD Columbia University College of Physicians and  
Surgeons

### **Postgraduate and Fellowship Training:**

Intern Medicine, Morristown Memorial Hospital,  
Morristown NJ  
Ophthalmology Residency, Wills Eye Hospital,  
Philadelphia PA  
Fellowship, Vitreoretinal Diseases, Manhattan Eye, Ear  
& Throat Hospital, New York NY

### **Specialty Certification:**

American Board of Ophthalmology  
Fellow American College of Surgeons

### **Licensure:**

Diplomat, National Board of Medical Examiners  
Commonwealth of Pennsylvania Medical Physician &  
Surgeon License  
DEA  
New Jersey Board of Medical Examiners Medical License

**Awards, Honors and Membership in Honorary Societies:**

Columbia Physicians and Surgeons		National Merit Scholar, Cornell University Phi Beta Kappa Phi Kappa Phi Rudin Scholar in the Faculty of Medicine, University College of
		ARVO / NEI Research Travel Fellowship Awardee Heed Ophthalmic Foundation Research Fellowship Society of Heed Fellows
Awardee;	1995 Grant angiogenesis	McCabe Foundation, University of Pennsylvania, Awardee; Animal models of ocular
	1996	Macula Foundation, New York, NY, Grant Ocular angiogenesis
	1997	National Eye Institute Grant Awardee, Complications of Age-Related Macular Degeneration Prevention Trial Fundus Photograph Reading Center, Principal Investigator
	1999 Award	American Academy of Ophthalmology Achievement

**Academic and Administrative Appointments:**

Secretary of	1991 - 92	Co - Chief Resident of the Residency Program, Wills Eye Hospital, Philadelphia PA
	1994 - 99	Assistant Professor, Department of Ophthalmology, University of Pennsylvania School of Medicine, Philadelphia, PA
	1995 -	Editorial Review Board, <i>Ophthalmic Surgery and Lasers</i>
	1997 - 2001	Pennsylvania Academy of Ophthalmology, Council Board Member
	1998 - 2001	Pennsylvania Academy of Ophthalmology, Public and Professional Information
	1998 -	New Devices Committee, Vitreous Society
	1999 -	Editorial Review Board, <i>Ophthalmology Times</i>
	1999-	Associate Surgeon, Retina Service

## Wills Eye Hospital

- 2000 - Associate Professor of Ophthalmology, Thomas Jefferson University School of Medicine, Philadelphia PA
- 2000 - American Board of Ophthalmology, Associate Examiner
- 2000 - Editorial Director of Ophthalmology, Healthology
- 2001 - Program Committee, Vitreous Society
- 2001- Editor in Chief, Current Opinion in Ophthalmology

**Scientific and Investigative Positions:**

- 1994 - 97 Investigator, Choroidal Neovascularization Prevention Trial (CNVPT) sponsored by the National Eye Institute
- 1994 - 98 Investigator, Age-Related Macular Degeneration and Thalidomide Study (AMDATS) sponsored by -
- 1994 - Director, Fundus Photograph Reading Center, Choroidal Neovascularization Prevention Trial (CNVPT) sponsored by the National Eye Institute
- 1994 - Executive Committee, Choroidal Neovascularization Prevention Trial (CNVPT) sponsored by the National Eye Institute
- 1995 - 96 Pilot grant. Animal models of ocular angiogenesis
- 1996 - 97 The Growth Factor Regulation of Ocular Angiogenesis
- 1997 - 99 Operations Committee, Complications of Age-Related Macular Degeneration Prevention Trial (CAPT) sponsored by the National Eye Institute

- 1998 - 99      Investigator, Complications of Age-Related Macular Degeneration Prevention Trial (CAPT) sponsored by the National Eye Institute
- 1998 - 99      Principal Investigator, Fundus Photograph Reading Center, Complications of Age-Related Macular Degeneration Prevention Trial (CAPT) sponsored by the National Eye Institute
- 1998 - 99      Executive Committee, Complications of Age-Related Macular Degeneration Prevention Trial (CAPT) ) sponsored by the National Eye Institute
- 1998 - 99      Principal Investigator, Purlytin Photodynamic Therapy Trial sponsored by ---
- 1998 - 99      Principal Investigator, Vitrase for Vitreous Hemorrhage Study (VVHS) sponsored by ---
- 1998 -          Director of Surgical Development, Pharmacologic Therapy for Macular Degeneration Study Group (PTMDS)
- 1999-          Principal Investigator, Visudyne for AMD Trial sponsored by ---
- 2000 -          Principal Investigator, Anecortave Acetate Sterile Suspension versus Placebo for Exudative Age-Related Macular Degeneration
- 2000 -          FDA Ophthalmic Devices Committee, Center for Devices and Radiological Health, Food and Drug Administration
- 2000 -          Principal Investigator, Envision intravitreal implant for chronic uveitis
- 2000 -          Principal Investigator, Anti-VEGF Aptmer for Exudative Age-Related Macular Degeneration
- 2001 - 2003    Director and Principal Investigator, Laser to Drusen Trial
- 2000-          Principal Investigator, Intravitreal fluocinolone implant for diabetic macular edema
- 2002 -          Co-investigator, Visudyne in Occult CNV

2003 - Co-investigator, RhuFab for Exudative Age-related Macular Degeneration

**Academic and Industry Advisory Boards:**

Advisory University of Pennsylvania	1996 - 99	West Philadelphia Prevention of Blindness Board, Scheie Eye Institute,
and	1996 - 99	Olestra Surveillance Advisory Council, The Proctor Gamble Company, Cincinnati, Ohio
	1997	Age-Related Macular Degeneration Advisory Board, Nexstar Pharmaceuticals, Inc. Boulder, Colorado
	2000 -	Alcon Vitreoretinal Surgical Advisory Committee
	2002 -	Lumenis / Coherent Advisory Committee

**Academic Committees:**

	1999 -	Wills Eye Hospital, Quality Assurance Committee
	1999 -	Wills Eye Hospital, Retina Fellowship Committee
	2001 -	Macula Society, Research Committee
	2001 -	Vitreous Society, Program Committee
	2002 -	Wills Eye Hospital, Patient Safety Committee

**Memberships in Professional and Scientific Societies:****National Societies:**

Ophthalmology      American Academy of Ophthalmology  
Association for Research in Vision and  
  
American College of Surgeons  
Vitreous Society  
Macula Society  
Retina Society

**Local Societies and Offices:**

2001      Pennsylvania Academy of Ophthalmology  
PAO Board member 1997 -  
Secretary Professional Information 1998 -  
  
Intercounty Ophthalmic Society  
Secretary / Treasurer 1999 – 2001  
President 2001 - 2003  
Philadelphia County Medical Society  
The College of Physicians of Philadelphia  
The Ophthalmic Club of Philadelphia

**Lectures by Invitation:**

Invited lecturer at the University of Maryland's New Treatments for Age-Related Macular Degeneration Course in Baltimore, Maryland on September 22, 2000. Laser to Drusen: Is there enough evidence to support this treatment?

Invited speaker Retina 2001, New Treatments for Age-Related Macular Degeneration and Complex Diabetic Traction Retinal Detachment Surgery with an Illuminated Diamond Knife. New England Eye Center, January 2001.

Invited speaker for the First Annual Applications of Verteporfrin (Visudyne) for Age-Related Macular Degeneration in Scottsdale, Arizona, on April 7, 2001.

Invited speaker on New Treatments for Age-related Macular Degeneration at the Pan American Academy of Ophthalmology in Buenos Aires, Argentina, on July 2001.

Invited speaker to the Saint Vincent / Catholic Medical Center to speak on Posterior Segment Manifestations of Ocular Trauma and Prophylactic Treatment for High Risk Unilateral AMD, on October 4, 2001.

Invited speaker to the Ocular Drug Delivery Meeting sponsored by the Foundation for Fighting Blindness on October 26th and 27th, 2001 in San Francisco, California. Sustained release intravitreal fluocinolone acetonide in combination with low intensity laser for dry AMD.

Invited speaker to the Retina 2001, Subspecialty Conference at the American Academy of Ophthalmology on November 8, 2001. Laser Treatment of Drusen in AMD.

Invited lecturer at the Greater New York Ophthalmology Clinical Lecture Series, Manhattan Eye and Ear Hospital on January 16, 2002: "Retinal Vascular Disease" and "New Approaches to High Risk Dry Age-Related Macular Degeneration".

Invited lecturer at the Aspen Retinal Detachment Society March 3- 6, 2002. "Surgical Pearls for Wide Angle Viewing Vitreoretinal Surgery" and "Pharmacological Intervention for Unilateral High Risk Dry Age-Related Macular Degeneration".

Invited lecturer at the New York State Ophthalmologic Society Annual Meeting in Stowe Vermont on February 9, 2002: "Update on Macular Hole: Classification and Surgery" and "Laser to Drusen".

Invited lecturer at the Northshore / Long Island Jewish Health System Clinical Ophthalmology Day on March 27, 2002. "Retinal Vascular Diseases: New Approaches and Updating Your Work-Up" and "New and Investigational Treatments for Age-Related Macular Degeneration".

Invited lecturer at the 1st Annual Bluegrass Ophthalmology meeting at the University of Kentucky, Lexington April 12 -13, 2002. Potential Prophylactic Therapies for Age-related Macular Degeneration.

Invited lecturer at the SUNY Ophthalmology Alumni Day in Brooklyn, NY on June 20, 2002. New Approaches to Retinal Vascular Diseases.

Invited lecturer at Macula 2003, Manhattan Eye and Ear, New York, NY on January 17, 2003. High Speed Low Flow Vitrectomy for Diabetic Traction Retinal Detachment.

Invited lecturer at the Current Concepts in Ophthalmology, Johns Hopkins University Wilmer Eye Institute, Vail Colorado March 18 – 22, 2003. Anecortave Acetate for Age-related Macular Degeneration; High Speed Low Flow Vitrectomy for Diabetic Traction Retinal Detachment.

**Bibliography:****Peer-Reviewed Original Publications:**

the  
Ophthalmol

*Lieb WE, Flaharty PM, **Ho AC**, Sergott RC.* Color Doppler imaging of eye and orbit: A synopsis of a 400 case experience. ACTA 1992; 204: 50-54.

syndrome.

***Ho AC**, Lieb WE, Flaharty PM, Brown GC, Bosley TM, Savino PJ, Sergott RC.* Color Doppler imaging of the ocular ischemic Ophthalmology 1992; 99: 1453-1462.

of the  
central retinal

*Sergott RC, Flaharty PM, Lieb WE, **Ho AC**, Kay MD, Mittra RA, Savino PJ, Bosley TM.* Color Doppler imaging identifies four syndromes retrobulbar circulation in patients with amaurosis fugax and artery occlusions. Trans Am Ophth Soc 1992; 90: 383-398.

Ophthalmol 1993; 8: 53-

***Ho AC**, Guyer DR, Yannuzzi LA, Brown GC.* Ocular syphilis: Classic manifestations and recent observations. Sem in 60.

***Ho AC** and Rapuano CJ.* Pasteurella multocida keratitis and corneal laceration by cat scratch. Ophthal Surg 1993; 24: 346-348.

*Regillo CD, Sergott RC, **Ho AC**, Belmont JB, Fisher DH.* Hemodynamic alterations in the acute retinal necrosis syndrome. Ophthalmology 1993; 100: 1171-6.

541.

***Ho AC**, Yannuzzi LA, Guyer DR, Sorenson JA, Slakter JA, Orlock DA.* Intraretinal accumulation of indocyanine green dye in age-related macular degeneration. Ophthalmology 1994; 101: 534-

videoangiography in

***Ho AC**, Fisher YL, Slakter JS, Guyer DR, Sorenson JA, Yannuzzi LA.* Intraoperative real-time indocyanine green subretinal surgery. Arch Ophthalmol 1994; 112: 872-874.

videoangiography-guided laser

*Slakter JS, Yannuzzi LA, Sorenson JA, Guyer DR, **Ho AC**, Orlock D.* A pilot study of digital indocyanine green photocoagulation of occult choroidal neovascularization in age-related macular degeneration. Arch Ophthalmol 1994; 112: 465-72.



*Sorenson JA, Yannuzzi LA, Slakter JS, Guyer DR, **Ho AC**, Orlock D.*  
 A pilot study of digital indocyanine green  
 videoangiography for recurrent choroidal neovascularization  
 in age-related macular degeneration. Arch Ophthalmol  
 1994; 112: 473-9.

***Ho AC**, Sergott RC, Regillo CD, Savino PJ, Lieb WE, Flaharty PM,  
 Bosley TM.* Color Doppler hemodynamics of giant cell  
 arteritis. Arch Ophthalmol 1994; 112: 938-945.

*Yannuzzi LA, Hope-Ross M, Slakter JS, Guyer DR, Sorenson JA, **Ho AC**, Sperber DE, Freund KB, Orlock D.* Analysis of  
 vascularized pigment epithelial detachment using indocyanine  
 green videoangiography. Retina 1994; 14: 99 -113.

*Moadel K, Yannuzzi LA, **Ho AC**, Ursekar A.* Retinal vascular occlusive  
 disease in a child with neurofibromatosis. Arch Ophthalmol 1994;  
 112: 1021 - 3.

*Guyer DR, Yannuzzi LA, Slakter JS, Sorenson JA, **Ho AC**, Orlock D.*  
 Indocyanine green videoangiography of central serous  
 choroidopathy. Arch Ophthalmol 1994; 112: 1057 - 62.

*Goebel W, Lieb WE, **Ho AC**, Sergott RC, Farhouman R, Grehn F.* Color  
 Doppler imaging: a new technique to assess orbital blood flow in  
 patients with diabetic retinopathy. Invest Ophthalmol &  
 Visual Science 1995; 36: 864 - 870.

***Ho AC**, Pisacano K, Yannuzzi LA, DeRosa JT.* The natural history of  
 idiopathic subfoveal choroidal neovascularization. Ophthalmology  
 1995; 102: 782 - 789.

***Ho AC**, Maguire AM, Yannuzzi LA, Fisher YL, Galetta S, Fisher YL,  
 Sergott RC.* Rapidly progressive optic disc  
 neovascularization after diabetic papillopathy. Am J  
 Ophthalmol 1995; 120: 673 - 675.

*Mousa SA, Kerr JS, **Ho AC**.* Angiogenesis in Vascular Disorders.  
 Current Research in Vascular Diseases 1997; 3: 1 - 5.

***Choroidal Neovascularization Prevention Trial Study Group.*** Laser  
 Treatment in Eyes with Large Drusen: Short Term Effects  
 from a Pilot Randomized Clinical Trial. Ophthalmology  
 1998; 105: 11-23.

***Choroidal Neovascularization Prevention Trial Study Group.***

Choroidal neovascularization in the CNVPT. *Ophthalmology* 1998; 105: 1364 - 1372.

**Ho AC, Guyer DR, Fine SL.** Macular Hole. *Survey Ophthalmology* 1998; 42: 393 - 416.

**Ho AC, Guyer DR, Fine SL, Brucker AJ,** *Grunwald JE, Hariprasad S, Dupont J, Maguire MG, Fine SL, Brucker AJ, *Maguire AM, Ho AC.* Foveolar choroidal blood flow in age-related macular degeneration. *Invest Ophthalmol Vis Sci.* 1998; 39: 385 - 390.*

**Ho AC, Maguire MG, Yoken J, Lee ML, Shin DS, Javornik NB, Fine SL and the Choroidal Neovascularization Prevention Trial Study Group..** Laser induced drusen reduction improves visual function at 1 year. *Ophthalmology* 1999; 106: 1367 - 1374.

**Sharma MC, Ho AC.** Macular fibrosis associated with talc retinopathy. *Am J Ophthalmol* 1999; 128: 517 – 519.

**Fine SL, Berger JW, Maguire MG, Ho AC.** Age-related macular degeneration. *N Engl J Med* 2000; 342: 483 - 492.

**Owsley C, Jackson GR, Cideciyan AV, Huang Y, Fine SL, Ho AC, Maguire MG, Lolley V, Jacobson SG.** Psychophysical evidence for rod vulnerability in age-related macular degeneration. *Invest Ophthalm Vis Sci* 2000; 41: 267 - 273.

**Kaiser RS, Maguire MG, Grunwald JE, Lieb D, Jani B, Brucker AJ, Maguire AM, Ho AC, Fine SL.** One-Year outcomes of panretinal photocoagulation in proliferative diabetic retinopathy. *Am J Ophthalmol* 2000; 129: 178 – 185.

**Ho AC, Benson WE, Wong J.** Unusual Immunogammopathy Maculopathy. *Ophthalmology* 2000; 107: 1099 – 1103.

**Recchia F, Ho AC.** Laser treatment of retinal venous occlusive disease. *Comprehensive Ophthalmology* 2000; 1: 109 – 118.

**Vander JF, Ho AC, McNamara JA, Regillo CD, Brown GC, Benson WE, Tasman W.** Diabetes and retinopathy. *Ophthalmology.* 2000 Dec;107(12):2120-2.

**Kaiser RS, Berger JW, Maguire MG, Shin DS, Ho AC, Javornik NB, Fine SL and the Choroidal Neovascularization Prevention Trial Research Group.** Laser burn

intensity and the risk for choroidal neovascularization in the CNVPT  
Fellow

Eye Study. Arch Ophthalmol 2001; 119:826-832.

**Ho AC and Regillo CD.** Clinical Challenges in Ophthalmology. Survey  
Ophth 2001 (in press)

**Benson WE, Regillo CD, Vander JF, Tasman W, Smith AF, Brown GC, Ho  
AC, McNamara JA.** Patient initiated second medical opinions: Their  
necessity and economic cost. Retina 2001; 21: 633 – 638.

**Shuler MF, Borrillo JL, Ho AC.** Photodynamic therapy update. Curr  
Opin Ophthalmol 2001, 12(3):202-6.

**Vander JF, Ho AC, McNamara JA, Regillo CD, Brown GC, Benson WE,  
Tasman W.** Diabetes and retinopathy. Ophthalmology. 2000  
Dec;107(12):2120-2.

**Benson WE, Regillo CD, Vander JF, Tasman W, Smith AF, Brown GC, Ho  
AC, McNamara JA.** Patient-initiated second medical opinions: their  
necessity and economic cost. Retina. 2001;21(6):633-8.

**Ho AC and Regillo CD.** Clinical Challenges Commentary. Bilateral  
Retinal hemorrhages in an 18 year old woman. Surv Ophthalmol 2002;  
47: 590 – 593.

**Nagra P, Ho AC, Dugan JD.** Lipemia Retinalis Associated with Branch  
Retinal Vein Occlusion. Am J Ophthalmol 2003: 135: 539 – 542.

**Liu M, Ho AC, Lee H.** Retinal Detachment From Inadvertent Intraocular  
Injection of Botulinum Toxin A. Arch Ophthalmol 2003, in press.

**Non Peer-Reviewed Original Books, Reviews and Chapters:**

**Ho AC.** Wills Eye Hospital Office and Emergency Room Treatment of  
Eye Disease. Second Edition. Retina Section Contributing  
author. JB Lippincott, Philadelphia 1994.

**Ho AC and Guyer DR.** Subfoveal choroidal neovascularization and  
indocyanine green dye-enhanced laser photocoagulation.  
In: Benson WE, Coscas G, Katz LJ Current  
Techniques in Ophthalmic Laser Surgery 1995;  
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- Ho AC.** Clinical Retinopathies. Dodson PM, Gibson JM, and Kritzinger EE. (Review) Ophthalmic Surgery and Lasers 1995; 26: 584.
- Ho AC.** Age-related macular degeneration: Where are we and where do we need to go? Review of Ophthalmology 1995; 2: 55 - 67.
- Ho AC.** An experimental therapy for age-related macular degeneration: thalidomide. Review of Ophthalmology 1995; 2: 55 - 64.
- Ho AC.** Clinical Decisions in Medical Retinal Diseases. Tasman, WS (editor) (Review) Ophthalmic Surgery and Lasers 1996; 27: 158 - 159.
- Ho AC.** Indocyanine Green Dye Imaging of the Retina and Retinal Vascular Diseases. (Chapter) in Yannuzzi LA (ed) Indocyanine Green Videoangiography. CV Mosby, St Louis 1997.
- Ho AC.** Age-Related Macular Degeneration. Current Concepts in Ophthalmology 1998; 5: 44 - 48.
- Ho AC.** Wills Eye Hospital Atlas of Clinical Ophthalmology. Tasman, WS and Jaeger EA (editors) and Atlas of Clinical Ophthalmology. Albert, DM and Jakobiec FA (editors). (Review) Ophthalmic Surgery and Lasers 1998; 29: 167 - 168.
- Ho AC.** Macular Hole, in Vitreous - Retina - Macula, Guyer DR, Yannuzzi LA, Chang S, Shields J, Green WR (editors) WB Saunders, Philadelphia 1998.
- Ho AC, Guyer DR, Fine SL.** Clinical Examination of the Posterior Segment of the Eye, in Vitreous - Retina - Macula. Guyer DR, Yannuzzi LA, Chang S, Shields J, Green WR. (editors), WB Saunders, Philadelphia 1998.
- Ho AC.** Hemoglobinopathies, in Ophthalmology. Yanoff M, Duker J et al (editors), Mosby, London 1998.
- Ho AC.** Miscellaneous Macular Diseases. Brown GC, Flynn HW, and Regillo CD, (editors). Essentials of Vitreoretinal Disease. Thieme, London. 1998.
- Ho AC.** Laser Treatment of Eyes with Drusen in Current Concepts in Ophthalmology by GC Brown, (editor) 1999.

**Ho AC.** New and Investigational Therapies for Age-Related Macular Degeneration. The Panretinal View. Ophthalmology Times 1999.

**Ho AC.** Ocular Toxoplasmosis (review). Evidence Based Eye Care 2000.

**Ho AC.** Macular Hole. Tasman W (editor) Spaeth's Ophthalmic Surgery, 4<sup>th</sup> edition, 2000.

**Sung J, Ho AC.** Macular Pucker. Tasman W (editor) Spaeth's Ophthalmic Surgery, 4<sup>th</sup> edition, 2000.

**Connolly BP, Ho AC.** Essentials of the fundusoscopic examination. Clinics Atlas of Office Procedures , Maus M, Jeffers J, Holleran E eds., WB Saunders Philadelphia, 2000.

**Ho AC.** "A Preliminary Study of Photodynamic Therapy Using Verteporfin for Choroidal Neovascularization in Pathologic Myopia, Ocular Histoplasmosis Syndrome, Angioid Streaks and Idiopathic Causes". (review) Evidence Based Eye Care 2000.

**Shuler MF, Borillo L, Ho AC.** Photodynamic Therapy for Age-Related Macular Degeneration. Current Opinion in Ophthalmology 2001.

**McCabe F, Ho AC.** Vein Occlusion: Current and Future Therapies. Review of Ophthalmology 12: 2001.

**Ho AC, Brown GC, McNamara JA, Recchia FM, Regillo CR, Vander JF.** Retina. Color Atlas and Synopsis of Clinical Ophthalmology. McGraw Hill, New York 2003.

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